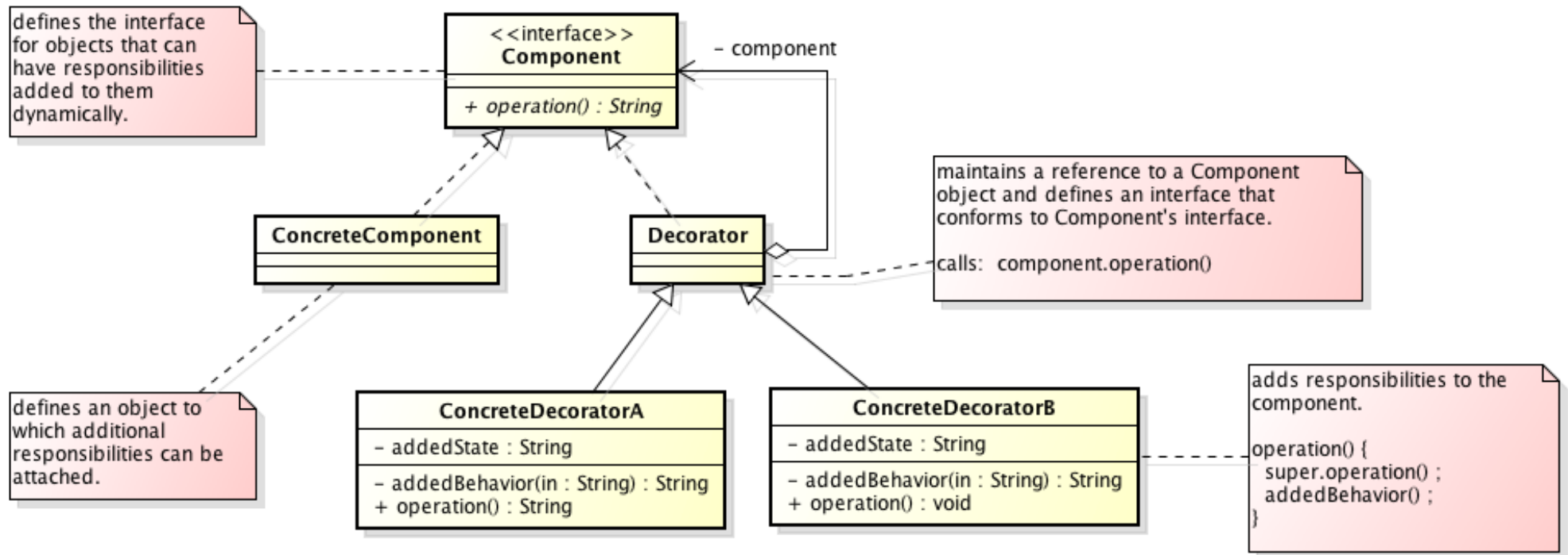


# Design Patterns Lab

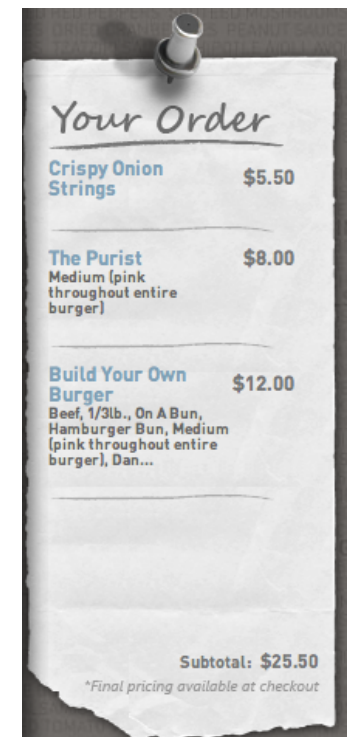
# Design Patterns Lab - Part 2

*Apply the Decorator Pattern to the Counter Burger Problem*



*Implement a Solution for getting the Price of a “Custom Built Burger” using the Decorator Pattern.*

*Draw a UML Class Diagram for your design and implement your solution in Java using BlueJ.*



# THE COUNTER®

CUSTOM BUILT BURGERS®



THE COUNTER

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BUILD YOUR OWN BURGER | STARTERS | SIGNATURE BURGERS | SIGNATURE BURGERS IN A BOWL  
SANDWICHES | KIDS MENU | DESSERTS | SHAKES, FLOATS AND MALTS | BEVERAGES

Collapse All

## STEP #1 Choose a Burger (Protein)

Beef + 1/3lb. + On A Bun

- |  |   |   |
|--|---|---|
| <input checked="" type="checkbox"/> Beef | <input checked="" type="checkbox"/> 1/3lb. (\$9.50) | <input checked="" type="checkbox"/> On A Bun  |
| <input type="checkbox"/> Chicken         | <input type="checkbox"/> 2/3lb. (\$11.50)           | <input type="checkbox"/> In A Bowl (\$1.00)   |
| <input type="checkbox"/> Turkey          | <input type="checkbox"/> 1lb. (\$15.50)             | <input type="checkbox"/> Lettuce Blend        |
| <input type="checkbox"/> Veggie          |   | <input type="checkbox"/> Organic Mixed Greens |

## STEP #2 Choose a Cheese (Extra Cheese +\$1.00)

Danish Blue Cheese + Horseradish Cheddar

- |  |   |  |
|--|---|--|
| <input checked="" type="checkbox"/> Danish Blue Cheese (l) | <input checked="" type="checkbox"/> Horseradish Cheddar (l) | <input type="checkbox"/> Soft Ripened Brie |
| <input type="checkbox"/> Greek Feta                        | <input type="checkbox"/> Imported Swiss                     | <input type="checkbox"/> Tillamook Cheddar |
| <input type="checkbox"/> Gruyère                           | <input type="checkbox"/> Jalapeño Jack                      | <input type="checkbox"/> Yellow American   |
| <input type="checkbox"/> Herb Goat Cheese Spread           | <input type="checkbox"/> Sharp Provolone                    |  |

## STEP #3 Choose up to 4 Toppings (Extra Toppings +\$0.75)

Bermuda Red Onion + Black Olives + Carrot Strings + Coleslaw

- |   |  |  |  |
|---|--|--|--|
| <input checked="" type="checkbox"/> Bermuda Red Onion (l) | <input type="checkbox"/> Dried Cranberries | <input type="checkbox"/> Lettuce Blend                   | <input type="checkbox"/> Scallions           |
| <input checked="" type="checkbox"/> Black Olives (l)      | <input type="checkbox"/> Grilled Onions    | <input type="checkbox"/> Organic Mixed Greens            | <input type="checkbox"/> Sliced Cucumbers    |
| <input checked="" type="checkbox"/> Carrot Strings (l)    | <input type="checkbox"/> Grilled Pineapple | <input type="checkbox"/> Roasted Green Chiles            | <input type="checkbox"/> Spicy Pepperoncinis |
| <input checked="" type="checkbox"/> Coleslaw (l)          | <input type="checkbox"/> Hard Boiled Eggs  | <input type="checkbox"/> Roasted Corn & Black Bean Salsa | <input type="checkbox"/> Sprouts             |
| <input type="checkbox"/> Dill Pickle Chips                | <input type="checkbox"/> Jalapeños         | <input type="checkbox"/> Roasted Red Peppers             | <input type="checkbox"/> Tomatoes            |

## Premium Toppings (\$1.50 Per Selection)

Applewood Smoked Bacon

- |  |  |  |
|--|--|--|
| <input checked="" type="checkbox"/> Applewood Smoked Bacon (l) | <input type="checkbox"/> Chili               | <input type="checkbox"/> Housemade Guacamole |
| <input type="checkbox"/> Avocado                               | <input type="checkbox"/> Fried Egg           | <input type="checkbox"/> Sautéed Mushrooms   |
| <input type="checkbox"/> Black Forest Ham                      | <input type="checkbox"/> Fried Onion Strings | <input type="checkbox"/> Sun-Dried Tomatoes  |

## STEP #4 Choose a Sauce (Extra Sauce +\$0.75)

Apricot Sauce

- |   |  |   |   |
|---|--|---|---|
| <input checked="" type="checkbox"/> Apricot Sauce (l) | <input type="checkbox"/> Dijon Balsamic Dressing | <input type="checkbox"/> Mayonnaise           | <input type="checkbox"/> Spicy Sour Cream             |
| <input type="checkbox"/> Basil Pesto                  | <input type="checkbox"/> Ginger Soy Glaze        | <input type="checkbox"/> Peanut Sauce         | <input type="checkbox"/> Steak Sauce                  |
| <input type="checkbox"/> Chipotle Aioli               | <input type="checkbox"/> Honey Mustard           | <input type="checkbox"/> Red Relish           | <input type="checkbox"/> Sun-Dried Tomato Vinaigrette |
| <input type="checkbox"/> Classic Caesar               | <input type="checkbox"/> Horseradish Mayo        | <input type="checkbox"/> Roasted Garlic Aioli | <input type="checkbox"/> Sweet BBQ Sauce              |
| <input type="checkbox"/> Country Buttermilk Ranch     | <input type="checkbox"/> Hot Wing Sauce          | <input type="checkbox"/> Russian Dressing     | <input type="checkbox"/> Tzatziki Sauce               |

## Your Order

Crispy Onion Strings \$5.50

The Purist \$8.00  
Medium (pink throughout entire burger)

Build Your Own Burger \$12.00  
Beef, 1/3lb., On A Bun, Hamburger Bun, Medium (pink throughout entire burger), Dan...

Subtotal: \$25.50

\*Final pricing available at checkout